$$y(x,t) = 2,00 - 10 \text{ m}^{\frac{3}{2}} \cdot (15.0 \text{ m}^{\frac{1}{2}}) x - 8,00 \text{ s}^{\frac{5}{2}} \cdot t)^{0.5}$$

$$\frac{\partial^2 y}{\partial x^2} = \frac{1}{v^2} \frac{\partial^2 y}{\partial t^2}$$

$$V^{2} = \frac{\partial^{2}y}{\partial t^{2}} = \frac{\ddot{y}}{y''} = \frac{(0,5 \cdot (15x - 8t) \cdot - 8)}{(0,5 \cdot (15 - 8t)^{0.5} \cdot 15)'} = \dots = \frac{(-8)^{2}}{15^{2}} \Rightarrow v = \frac{8}{15^{2}} = \frac{(-8)^{2}}{15^{2}} \Rightarrow v = \frac{8}{15^{2}} = \frac{(-8)^{2}}{15^{2}} \Rightarrow v = \frac{8}{15^{2}} \Rightarrow v = \frac{1$$

$$V = \lambda - f = \frac{2\pi}{k} \cdot \frac{w}{2\pi i} = \frac{w}{k} = \frac{8,00}{15.0} = 0,5333 \text{ m/s}$$